

## SEQUENCE LISTING

TECH CENTER 1600/2900

```
<110> Gopalan, Venkat
       Jovanovic, \Milan
       Eder, Paul 5.
       Giordano, Tany
       Powers, Gordon D.
Xavier, K. Asish
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<120> Novel Bacteria Rnase P Proteins and Their Use in Identitying Antibacterial Compounds

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AND ID

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Support of the suppor

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马姆牌

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<212> PRT

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Val Ala Asp Gly Thr His Ala
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 Arg
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Pro Arg Leu Gly Leu Ala Val Pro Lys Lys Gln Ile Lys Thr Ala Val
Gly Arg Asn Arg Phe Lys Arg Ile Cys Arg Glu Ser Phe Arg Leu His
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Gln Asn Gln Leu Ala Asn Lys Asp Phe Val Val Ile Ala Lys Lys Ser
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Ile Gly Leu Val Val Gly Lys Lys Thr Ala Lys Arg Ala Asn Glu Arg
Asn Tyr Met Lys Arg Val Ile \Arg Asp Trp Phe Arg Leu Asn Lys Asn
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Arg Leu Pro Pro Gln Asp Phe Val Val Arg Val Arg Arg Lys Phe Asp
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Gly Asn Pro Ala Thr Gly Cys Gly Lys Gln Val
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Sul Cont

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Rio Land

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                                25
Val Tyr Pro Leu Arg Val Val Tyr Arg Leu Gly Ser Glu His Arg Val
                            40
Ala Tyr Ser Ser Met Leu Val Ser Val Ala Lys Lys Arg Phe Arg Arg
Ala Val Lys Arg Asn Arg Val Lys Arg Leu Val Arg Glu Ala Tyr Arg
Leu Asn Lys His Leu Leu Asn Asp Val Leu Gln Glu Arg Gln Ile Tyr
Ala Thr Ile Ala Phe Met Val Val Ser Asp Glu Leu Pro Asp Phe Arg
                                105
            100
Thr Val Glu Arg Ala Met Gln Lys Ser Leu Ile Arg Ile Ala Gly Asn
                            120
Val Pro Ser Ser Ala\Leu Lys Asn Glu
    130
<210> 32
<211> 124
<212> PRT
<213> Streptococcus preumoniae
<400> 32
Val Leu Lys Lys Asn Phe Arg Val Lys Arg Glu Lys Asp Phe Lys Ala
                                    10
Ile Phe Lys Glu Gly Thr\Ser Phe Ala Asn Arg Lys Phe Val Val Tyr
                                25
Gln Leu Glu Asn Gln Lys Asn Arg Phe Arg Val Gly Leu Ser Val Ser
                            40
Lys Lys Leu Gly Asn Ala Val Thr Arg Asn Gln Ile Lys Arg Arg Ile
Arg His Ile Ile Gln Asn Ata Lys Gly Ser Leu Val Glu Asp Val Asp
                    70
                                        75
Phe Val Val Ile Ala Arg Lys Gly Val Glu Thr Leu Gly Tyr Ala Glu
                                    90
Met Glu Lys Asn Leu Leu Hi$ Val Leu Lys Leu Ser Lys Ile Tyr Arg
                                105
Glu Gly Asn Gly Ser Glu Lys Glu Thr Lys Val Asp
                            120
<210> 33
<211> 114
<212> PRT
<213> Clostridium difficile
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```
<400>\33
Met Asp Phe Asn Arg Thr Lys Gly Leu Lys Lys Asp Ser Asp Phe Arg
Lys Val\Tyr Lys His Gly Lys Ser Phe Ala Asn Lys Tyr Leu Val Ile
Tyr Ile Leu Lys Asn Lys Ser Asp Tyr Ser Arg Val Gly Ile Ser Val
Ser Lys Lys Val Gly Lys Ala Ile Thr Arg Asn Arg Val Arg Arg Leu
Ile Lys Gl\(\dagger) Ala Tyr Arg Leu Asn Ile Asp Glu Lys Ile Lys Pro Gly
                    70
                                         75
Tyr Asp Ile Wal Phe Ile Ala Arg Val Ser Ser Lys Asp Ala Thr Phe
                                    90
Lys Asp Ile Asp Lys Ser Ile Lys Asn Leu Val Lys Arg Thr Asp Ile
                                105
Ser Ile
<210> 34
<211> 108
<212> PRT
<213> Camphylobacter jejuni
<400> 34
Val Lys Asn Phe Asp\Lys Phe Ser Thr Asn Glu Glu Phe Ser Ser Val
Tyr Lys Val Gly Lys Lys Trp His Cys Glu Gly Val Ile Ile Phe Tyr
Leu Asn Ser Tyr Glu L\chis Lys Ile Ala Val Val Ala Ser Lys Lys Val
Gly Lys Ala Val Val Ary Asn Arg Ser Lys Arg Ile Leu Arg Ala Leu
Phe Ala Lys Phe Glu Arg Tyr Leu Gln Asp Gly Lys Tyr Ile Phe Val
Ala Lys Asn Glu Ile Thr Çlu Leu Ser Phe Ser Arg Leu Glu Lys Asn
                85
                                    90
Leu Lys Trp Gly Leu Lys Lys Leu Glu Cys Phe Lys
            100
                                105
<210> 35
<211> 119
<212> PRT
<213> Bacillus anthracis
<400> 35
Met Lys Lys Lys His Arg Ile Lys Lys Asn Asp Glu Phe Gln Thr Val
                                    10
Phe Gln Lys Gly Lys Ser Asn Ala Asn Arg Gln Phe Val Val Tyr Gln
Leu Asp Lys Glu Glu Gln Pro Asn Phe Arg Ile Gly Leu Ser Val Ser
Lys Lys Ile Gly Asn Ala Val Val Arg Asn Arg Ile Lys Arg Met Ile
Arg Gln Ser Ile Thr Glu Leu Lys Ash Glu Ile Asp Ser Gly Lys Asp
```

Phe Val Ile Ile Ala Arg Lys Pro Cys Ala Glu Met Thr Tyr Glu Glu

```
85
                                    90
Leu Lys Lys Ser Leu Ile His Val Phe Lys Arg Ser Gly Met Lys Arg
                                105
            100
Ile Lys Set Ser Val Arg Lys
        115
<210> 36
<211> 119
<212> PRT
<213> Mycobacterium avium
<400> 36
Val Leu Pro Ala Arg Asn Arg Met Thr Arg Ser Thr Glu Phe Asp Ala
                                    10
Thr Val Lys His Gly Thr Arg Met Ala Gln Pro Asp Ile Val Val His
                                25
Leu Arg Arg Asp Ser Glu Pro Asp Asp Glu Ser Ala Gly Pro Arg Val
Gly Leu Val Val Gly Lys Ala Val Gly Thr Ala Val Gln Arg His Arg
Val Ala Arg Arg Led Arg His Val Ala Arg Ala Leu Leu Gly Glu Leu
Glu Pro Ser Asp Arg\Leu Val Ile Arg Ala Leu Pro Gly Ser Arg Thr
                                    90
               85
Ala Ser Ser Ala Arg Leu Ala Gln Glu Leu Gln Arg Cys Leu Arg Arg
                                105
           100
Met Pro Ala Gly Thr dly Pro
        115
<210> 37
<211> 117
<212> PRT
<213> Staphylococcus auteus
<400> 37
Met Leu Leu Glu Lys Ala Tyr Arg Ile Lys Lys Asn Ala Asp Phe Gln
Arg Ile Tyr Lys Lys Gly His Ser Val Ala Asn Arg Gln Phe Val Val
            20
                                25
Tyr Thr Cys Asn Asn Lys Glu Ile Asp His Phe Arg Leu Gly Ile Ser
       35
                            40
Val Ser Lys Lys Leu Gly Asn Ala Val Leu Arg Asn Lys Ile Lys Arg
                        55
                                             60
Ala Ile Arg Glu Asn Phe Lys Val His Lys Ser His Ile Leu Ala Lys
                    70
                                        75
Asp Ile Ile Val Ile Ala Arg In Pro Ala Lys Asp Met Thr Thr Leu
                                    90
Gln Ile Gln Asn Ser Leu Glu His Val Leu Lys Ile Ala Lys Val Phe
                                105
Asn Lys Lys Ile Lys
        115
<210> 38
<211> 117
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<212> PRT

## <213> Staphylococcus aureus

 <400> 38
 Met Leu Leu Glu Lys Ala Tyr Arg Ile Lys Lys Asn Ala Asp Phe Gln 1
 10
 15

 Arg Ile Tyr Lys Lys Gly His Ser Val Ala Asn Arg Gln Phe Val Val 20
 25
 30

 Tyr Thr Cys Asn Asn Lys Glu Ile Asp His Phe Arg Leu Gly Ile Ser 35
 40
 45

 Val Ser Lys Lys Leu Gly Asn Ala Val Leu Arg Asn Lys Ile Lys Arg 50
 55
 60

 Ala Ile Arg Glu Asn Phe Lys Val His Lys Ser His Ile Leu Ala Lys 65
 70
 75
 80

 Asp Ile Ile Val Ile Ala Arg Gln Pro Ala Lys Asp Met Thr Thr Leu 90
 95

 Gln Ile Gln Asn Ser Leu Glu His Val Leu Lys Ile Ala Lys Val Phe 100
 105
 110

 Asn Lys Lys Ile Lys 115
 110
 110